



COLOR TELEVISION RECEIVER

INSTRUCTION MANUAL

Q2735A

Before operating the unit, please read this manual thoroughly.

PART 2 TELEVISION OPERATIONS

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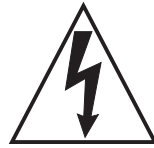
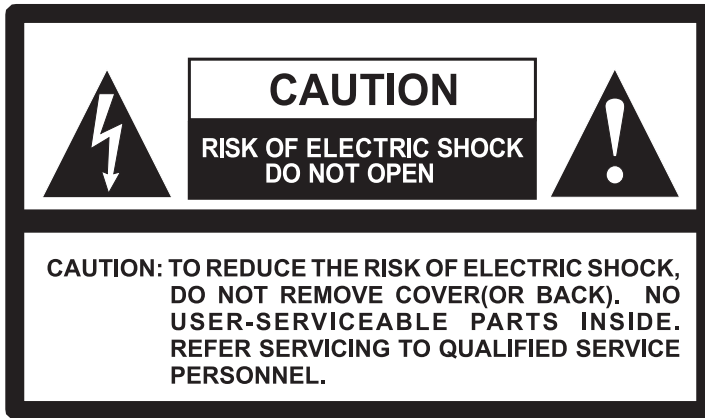
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Important safety instructions



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Before using the unit, be sure to read all operating instructions carefully. Please note that these are general precautions and may not pertain to your particular unit. For example, this unit may not have the capability to be connected to an outdoor antenna.

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the product and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. CLEANING

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. ATTACHMENTS

Do not use attachments not recommended by the product's manufacturer as they may cause hazards.

7. WATER AND MOISTURE

Do not use this product near water (a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or swimming pool for example)

8. ACCESSORIES

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION

Slots and openings in the cabinet and in the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. POWER SOURCES

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

11. GROUNDING OR POLARIZATION

This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

PORTABLE CART WARNING
(symbol provided by RETAC)



S3126A

13. LIGHTNING

To protect your product from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching power lines or circuits as contact with them might be fatal.

15. OVERLOADING

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY

Never push objects of any kind through openings in the product as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid on the product.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna is connected to the product, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, size of grounding conductors, location of antenna discharge product, connection to grounding electrodes, and requirements for grounding electrodes.

18. SERVICING

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

20. SAFETY CHECK

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

22. DAMAGE REQUIRING SERVICE

Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

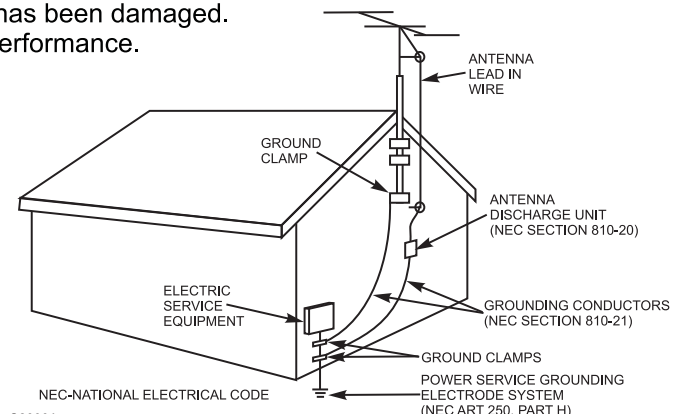
- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally after installation by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or the cabinet has been damaged.
- When the product exhibits a distinct change in performance.

23. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

24. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

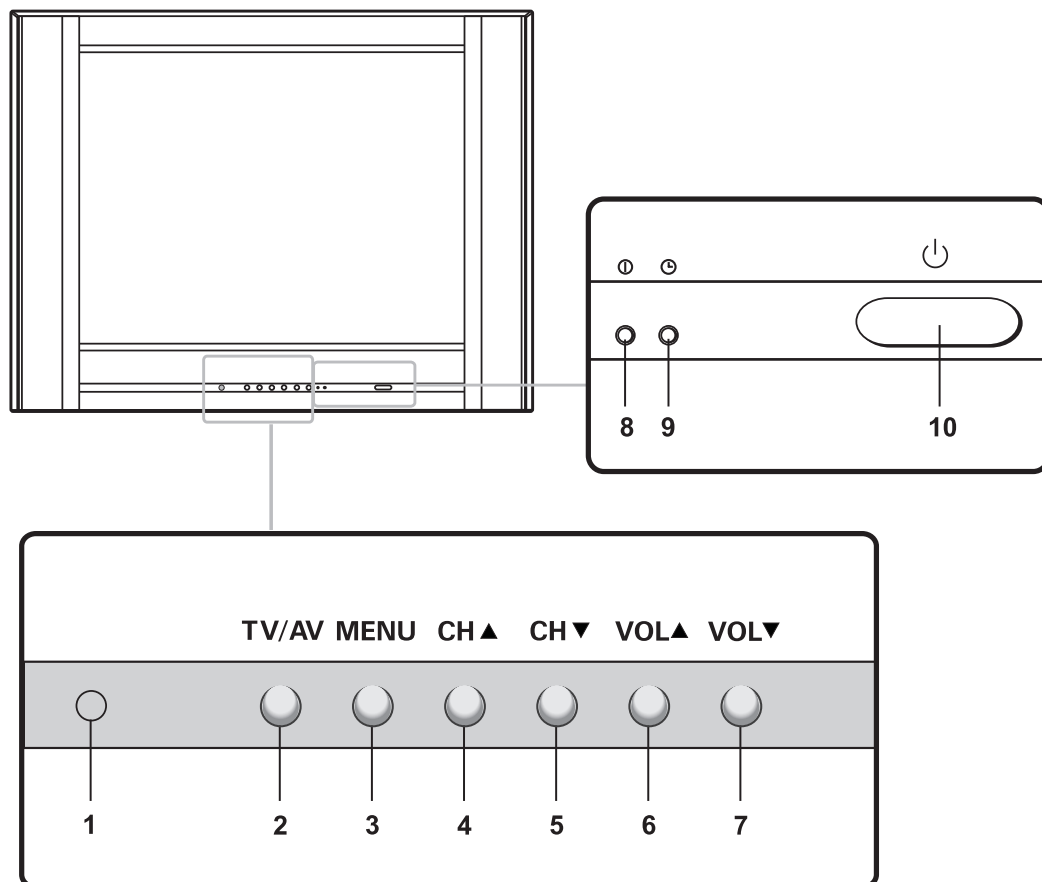


EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE

WARNING: FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS (REFER TO SERVICE LITERATURE).

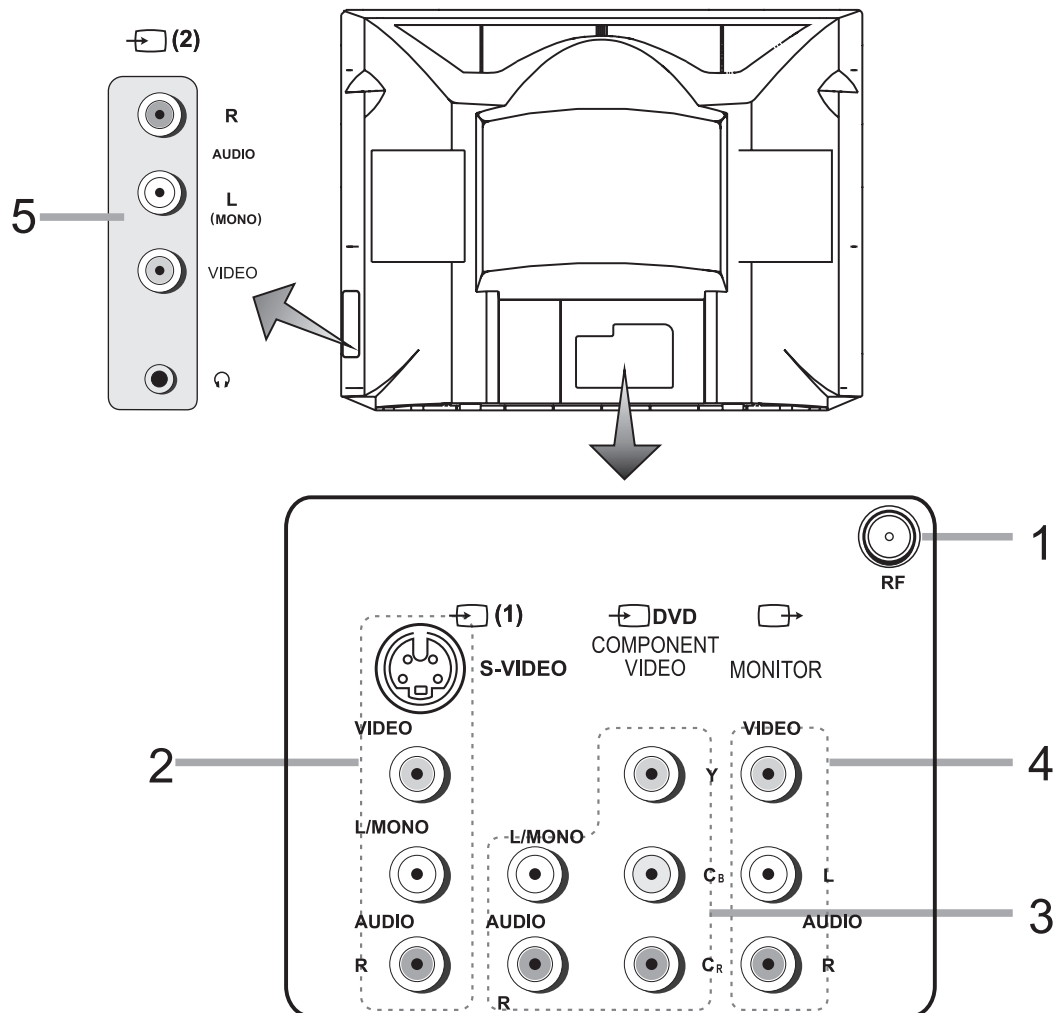
Identification of Controls

Front



1. Remote sensor
2. TV/AV button: video input select.
3. MENU button: to enter into menu operation.
4. CH▲ button: channel up select; menu item select.
5. CH▼ button: channel down select; menu item select.
6. VOL▲ button: volume up select; menu item adjust.
7. VOL▼ button: volume down select; menu item adjust.
8. Power indicator: it lights up in red in STANDBY while it turns to yellow after turning on.
9. On-time indicator: this indicator lights up when the On-time function is set.
10. Power button

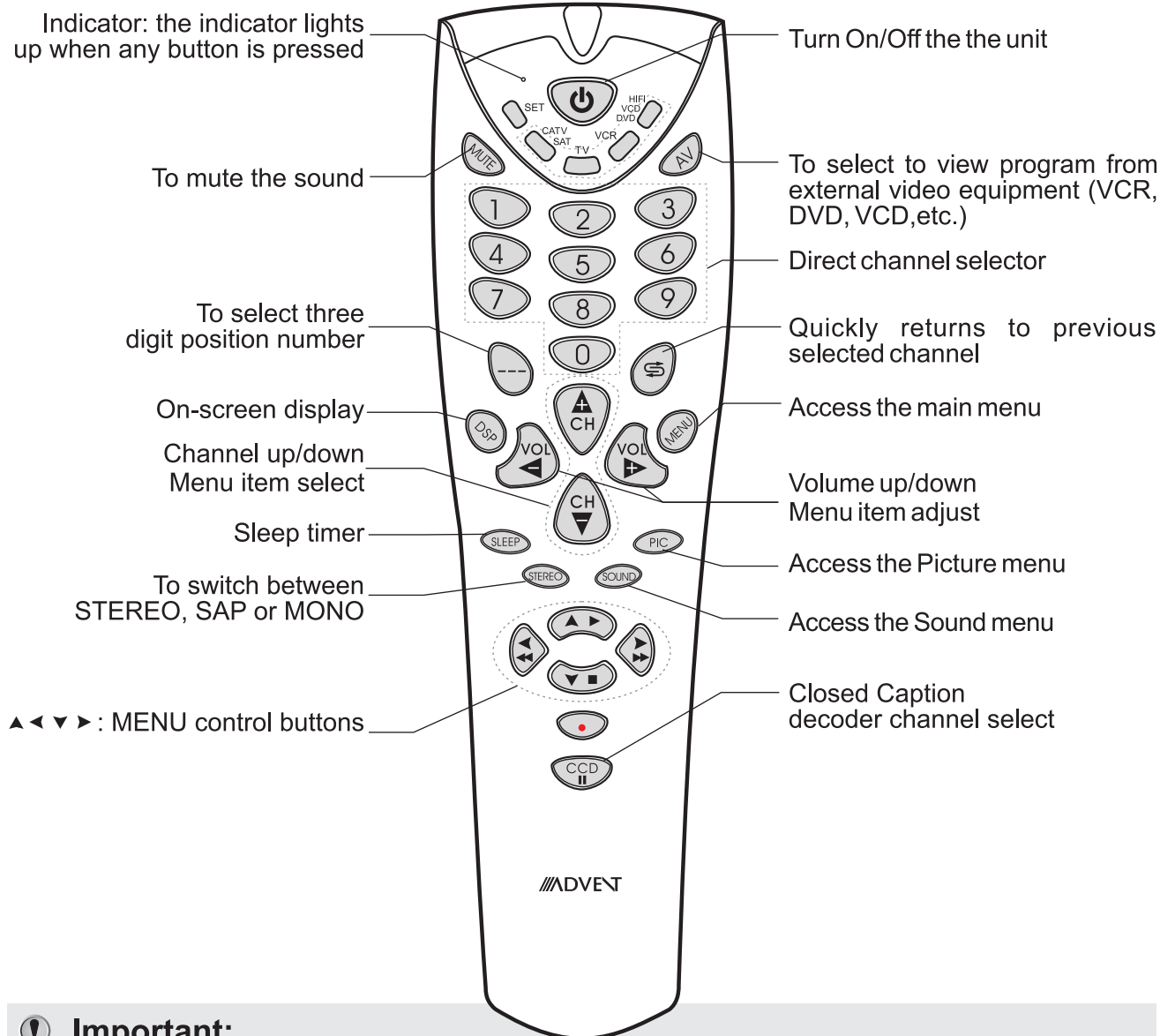
Back



1. Antenna input
 2. AV1 input (S-VIDEO, VIDEO, AUDIO L/MONO, R)
 3. DVD input (Y, C_B, C_R, AUDIO L/MONO, R)
 4. MONITOR output (VIDEO, AUDIO L, R)
 5. Earphone jack
- AV2 input (VIDEO, AUDIO L/MONO, R)

Identification of Controls_(continued)

Remote Controller



! Important:

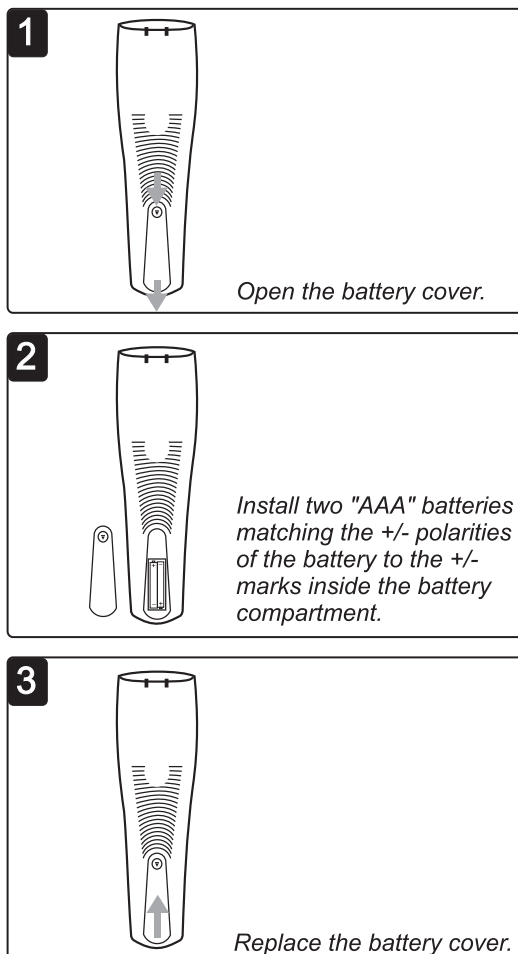
If your remote controller does not work correctly, maybe the setting of the remote controller is wrong, please try the following steps.

1. Press and hold the **SET** button, followed by the **TV** button at the same time until the indicator lights up.
2. Press 1, 3, 3 buttons one by one. As a response, the indicator of the remote control will twinkle twice, otherwise please repeat the above 2 steps.

! Notes:

In MENU operations, the function of the ▲/▼ buttons is equal to the CH+/- buttons; and the function of the ▶/◀ buttons is equal to the VOL+/- buttons.

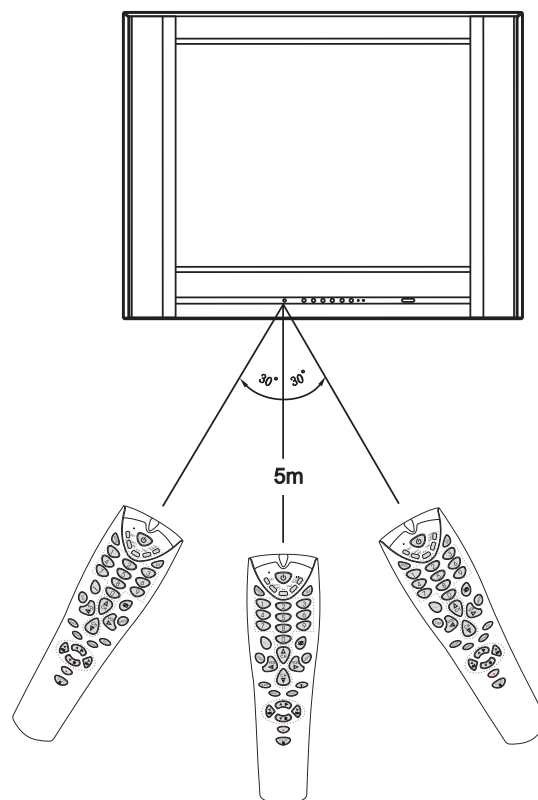
Installing batteries



! Notes:

- ▣ Do not try to recharge batteries they are not intended to be recharged.
- ▣ Use only the size and type of batteries specified. Do not mix different types of batteries together or old batteries with fresh ones.
- ▣ When the remote control will not be used for a long period of time or when the batteries are worn out, remove the batteries.
- ▣ Do not throw the batteries into a fire. Dispose of used batteries in the specified manner.
- ▣ Do not drop, dampen or disassemble the remote control.

Effective range of the Remote



! Notes:

- ▣ When there is an obstacle between the TV and the transmitter, the transmitter may not operate.
- ▣ When direct sunlight, and incandescent lamp, fluorescent lamp or any other strong light shines on the REMOTE SENSOR of the TV, the remote operation may be unstable.

Installation

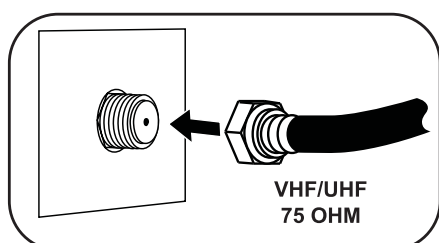
INSTALL the unit in a room where direct light will not fall upon the screen. Total darkness or a reflection on the picture screen may cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

Antenna connections

OUTDOOR VHF/UHF ANTENNA CONNECTION (ANTENNA NOT INCLUDED)

Follow the instructions for the type of antenna system you intend to use. If using Cable or satellite, see the next page.

Combination VHF/UHF Antenna (Single 75 ohm cable or 300 ohm twin-lead wire)

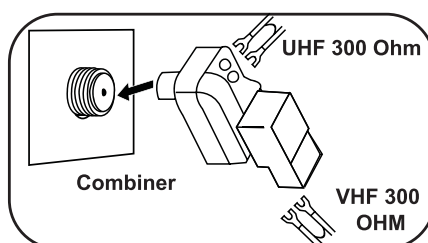


Connect the 75 ohm cable from combination VHF/UHF antenna to the antenna jack.

OR

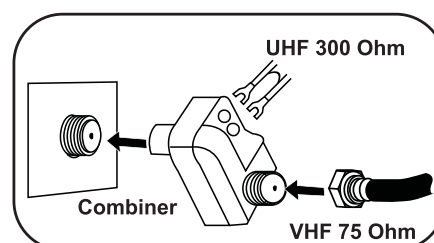
If your combination antenna has a 300 ohm twin-lead wire, use a 300-75 ohm matching transformer (NOT SUPPLIED).

Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm twin-leads)



Connect the UHF twin-lead wire to a combiner (NOT SUPPLIED). Connect the VHF twin-lead to a 300-75 ohm matching transformer (NOT SUPPLIED). Attach the transformer to the combiner. Attach the combiner to the antenna jack.

Separate VHF/UHF Antennas



Connect the 75 ohm cable from the VHF antenna and the UHF antenna twin-lead wire to a combiner (NOT SUPPLIED). Attach the combiner to the antenna jack.

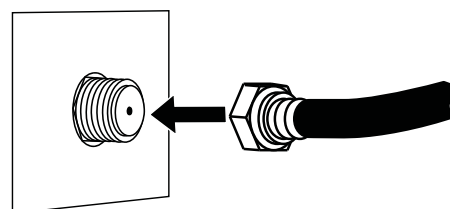
NOTE: If your VHF antenna has a twin-lead wire use a 300-75 ohm matching transformer, then connect the transformer to the combiner.

Cable (CATV)/satellite connections

This TV has an extended tuning range and can tune most cable channels without using a Cable TV converter box. Some Cable TV companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the cable company.

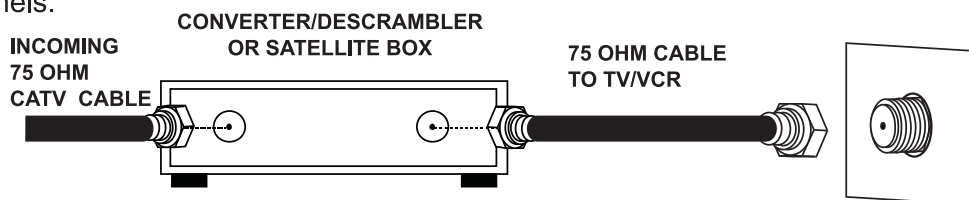
FOR SUBSCRIBERS TO BASIC CABLE TV SERVICE

For basic cable service not requiring a converter/descrambler box, connect the CATV 75 ohm coaxial cable to the VHF/UHF jack on the rear of the TV.



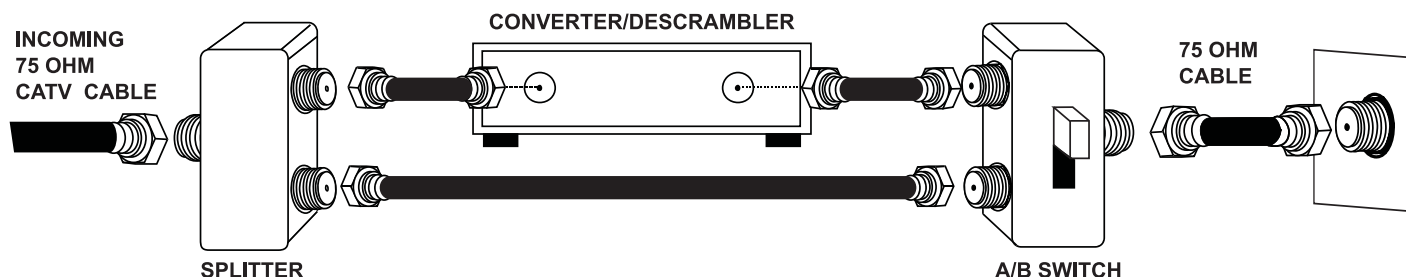
FOR SUBSCRIBERS TO SCRAMBLED CABLE TV SERVICE OR SATELLITE

If you subscribe to a satellite service or a cable TV service which requires the use of a converter/descrambler box, connect the incoming 75 ohm coaxial cable to the converter/descrambler box. Using another 75 ohm cable, connect the output of the converter/descrambler or satellite box to the antenna jack on the TV. Follow the connections shown below. Set the TV/VCR to the output channel of the converter/descrambler or satellite box (usually 3 or 4) and use the converter/descrambler or satellite box to select channels.



FOR SUBSCRIBERS TO UNSCRAMBLED BASIC CABLE TV SERVICE WITH SCRAMBLED PREMIUM CHANNELS

If you subscribe to a satellite service or a cable TV service in which basic channels are unscrambled and premium channels require the use of a converter/descrambler box, you may wish to use a signal splitter and an A/B switch box (available from the cable company or an electronic supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any unscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to tune scrambled channels.

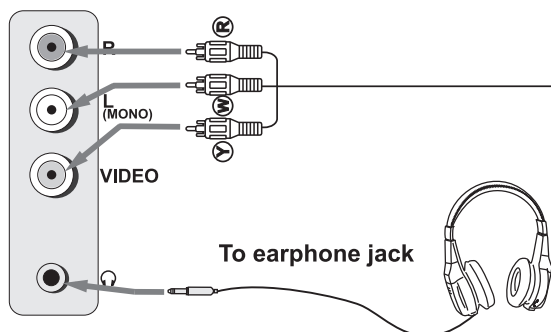


Connecting video and audio equipment

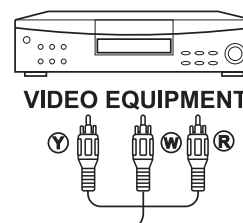
Connecting side AV inputs (AV2)

To watch video program from AV2 inputs, you need to switch the set to **"Video2"** by pressing **AV** button.

TV SET SIDE



- Ⓨ Yellow (video)
- Ⓦ white (audio L/MONO)
- Ⓡ red (audio R)

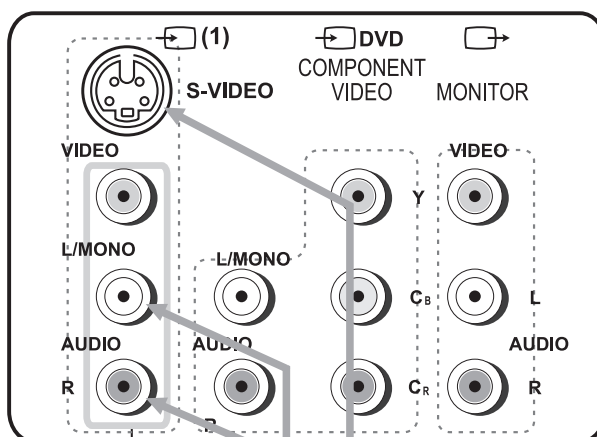


Connecting AV1 inputs

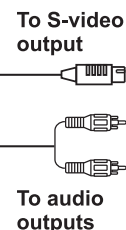
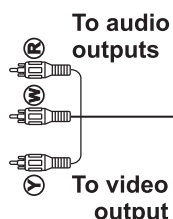
To watch video program from AV1 inputs, you need to switch the set to **"Video1"** by pressing **AV** button.

- Ⓨ Yellow (video)
- Ⓦ white (audio L/MONO)
- Ⓡ red (audio R)

TV SET REAR



without S-video terminal



with S-video terminal



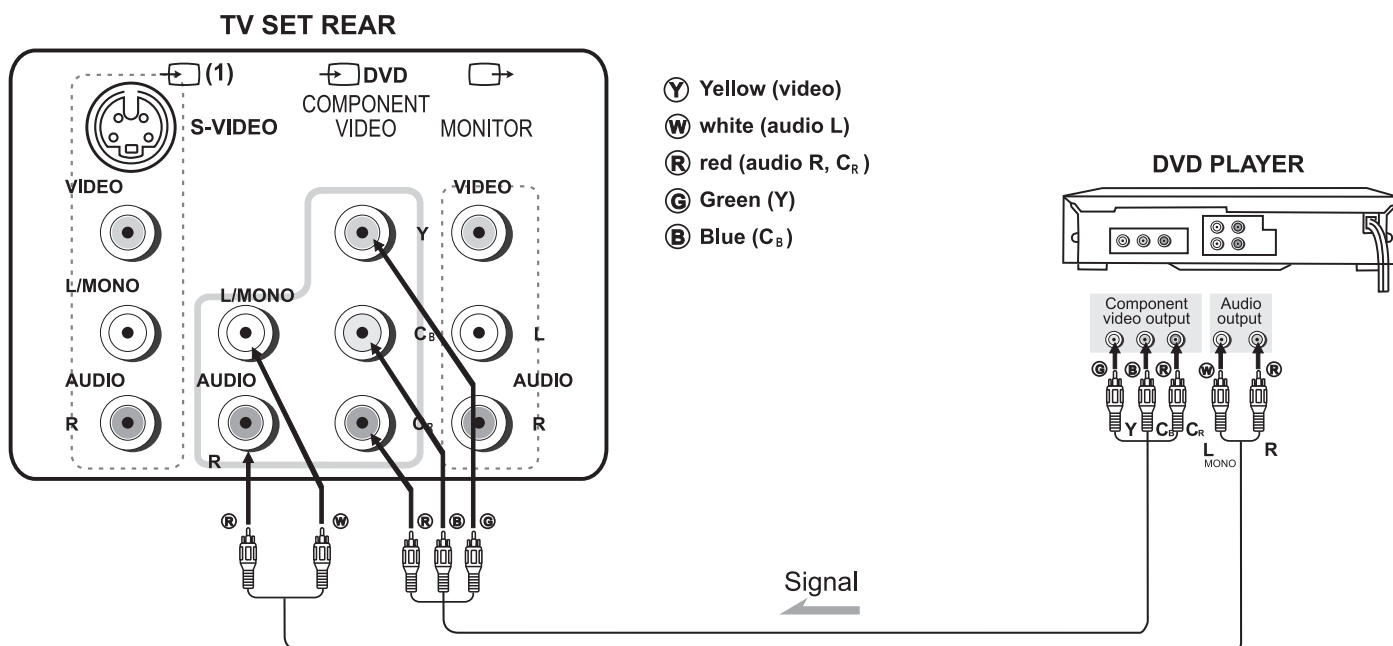
! Notes:

In AV1 input terminals, the S-VIDEO terminal is prior to the VIDEO1 terminal. When both S-video and video signal are input, the S-video signal is selected. To view a video signal, disconnect the S-VIDEO connection.

This TV set provides 3 groups of AV input terminals and 1 group of MONITOR output terminals for your convenient connection to VCR, DVD or other video equipment.
Please refer to the **Owner's Manual** of the equipment to be connected as well.

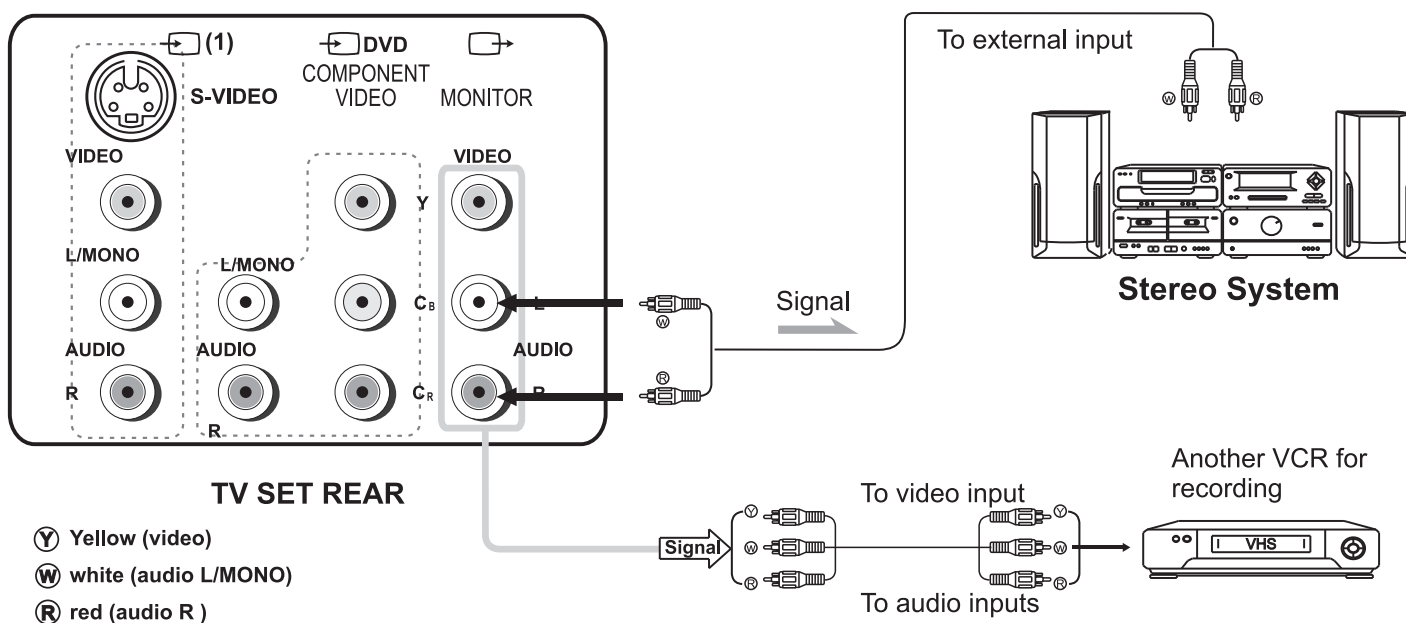
Connecting DVD

To watch video program from DVD inputs, you need to switch the set to "DVD" by pressing **AV** button.

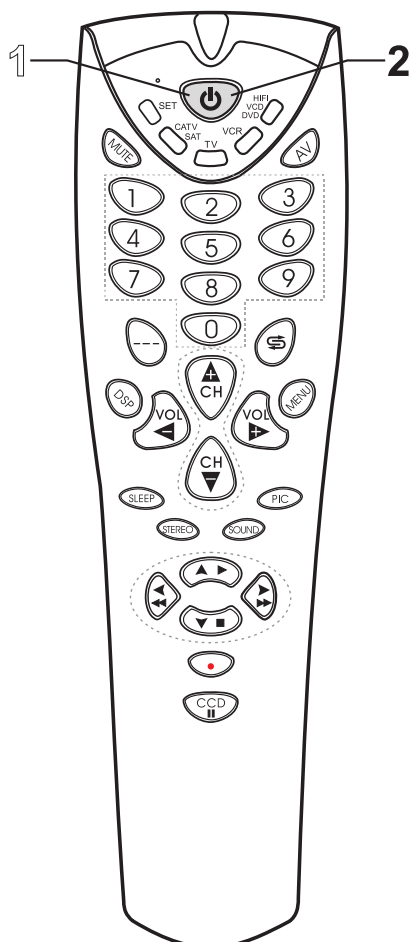
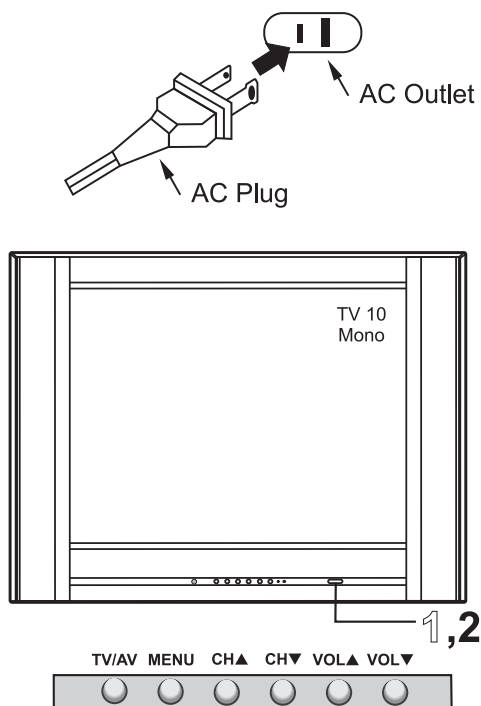


Connecting MONITOR outputs

You can connect a stereo system to the MONITOR output terminals on the TV set rear to enjoy a high-quality sound from the stereo system, or you can connect the MONITOR output terminals to the VCR to record the program you like.



Turning on/off



Turning on

- 1 Insert the AC plug (with the 2 blades) into a conveniently located AC outlet having 120V, 60Hz.

If no picture appears and the red indicator lights up, then the TV set is in STANDBY mode. Now please follow step 2.

! Notes:

The AC plug supplied with the unit is polarized to help minimize the possibility of electric shock. If the AC plug does not fit into a nonpolarized AC outlet, do not file or cut the wide blade. It is the user's responsibility to have an electrician replace the obsolete outlet.

To prevent electric shock, do not use a (polarized) plug with an extension cord receptacle or other outlet unless the blades can be fully inserted.

- 2 In STANDBY mode, press the power button on the TV set or on the remote controller and the TV set is turned on.

Now the red indicator turns to yellow, and the picture appears on the screen.

! Notes:

In STANDBY mode, you can also turn on the set by pressing the **TV/AV**, **CH▲/▼** or **VOL▲/▼** button on the set's panel. If there is no input signal, then a blue background appears.

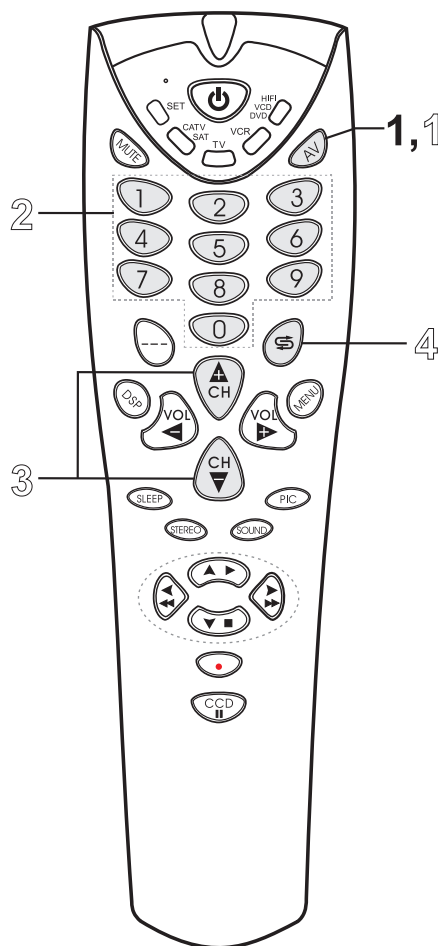
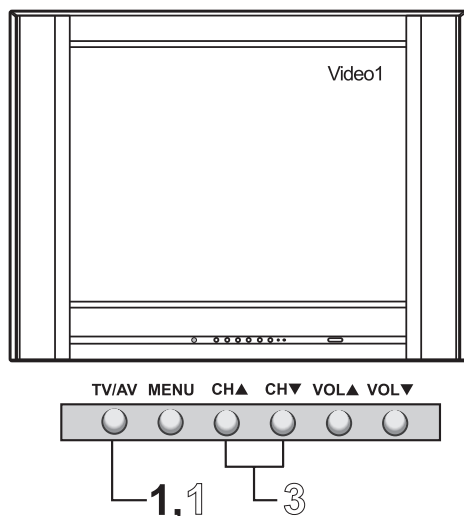
Turning off

- 1 Press the Power button on the remote controller or on the TV set to turn off the TV set.

! Notes:

The TV set can turn off automatically by:
 A. **Sleep** timer function (needs to be set in advance).
 B. **OFF** timer function (needs to be set in advance).

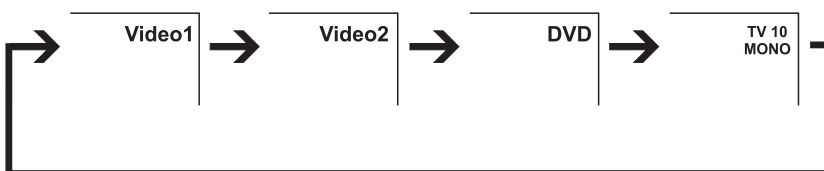
Select Input Signal



Watching AV program

This TV set provides 3 groups of AV input terminals for your convenient connection to VCR, DVD or other video equipments.

- 1 To watch video program from AV inputs, Press AV button repeatedly until you see the appropriate input indicator on the screen.**



! Notes:

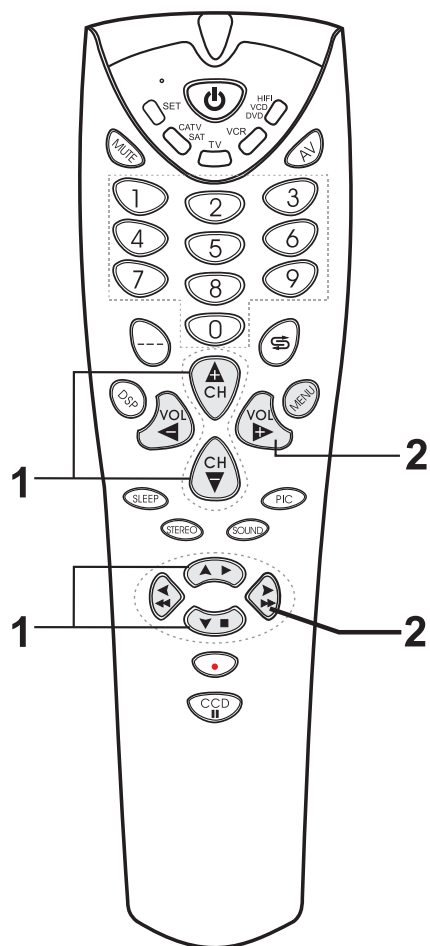
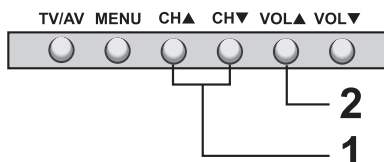
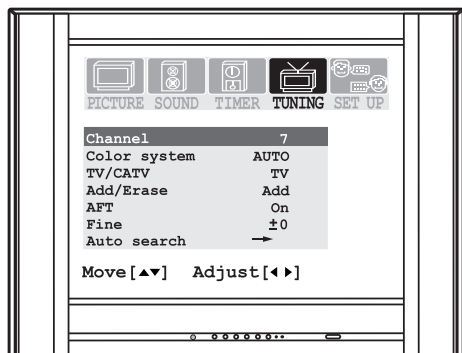
In AV1 input terminals, the S-VIDEO terminal is prior to the VIDEO1 terminal. When both S-video and video signal are input, the S-video signal is selected and the OSD is "S-Video". To view a video signal, disconnect the S-VIDEO connection.

Switching from AV to TV

When the TV set is in AV mode, there are four ways for you to switch back to TV mode as follows.

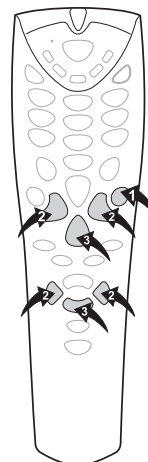
- 1 Press AV button repeatedly until the TV program appears.**
- 2 Press digit buttons to switch back to TV mode.**
- 3 Press CH+ or CH- button to switch back to TV mode.**
- 4 Press the S button to switch back to TV mode.**

Tuning in



To enter the TUNING menu

- 1 Press MENU button.
- 2 Press VOL+ or VOL- button to select TUNING icon
- 3 Press CH- button to display the TUNING menu.



Auto Search

Please enter the **TUNING** menu first.

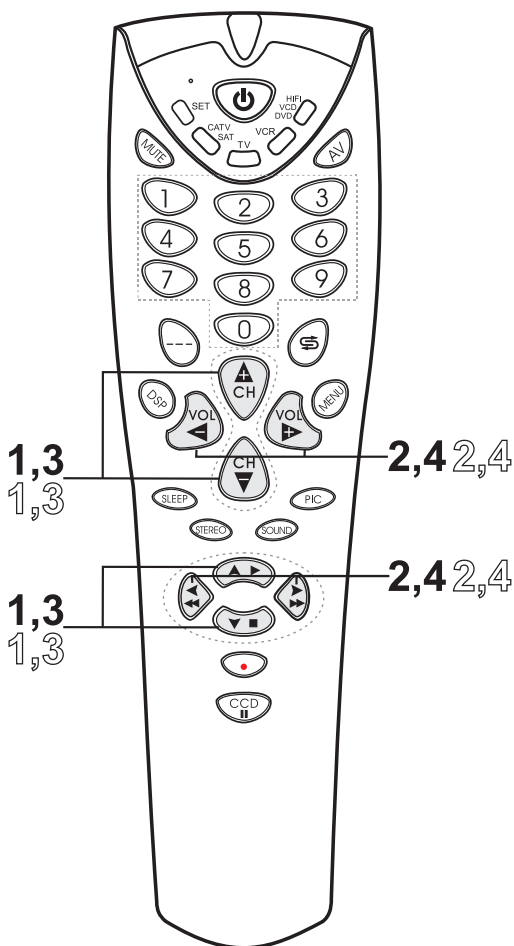
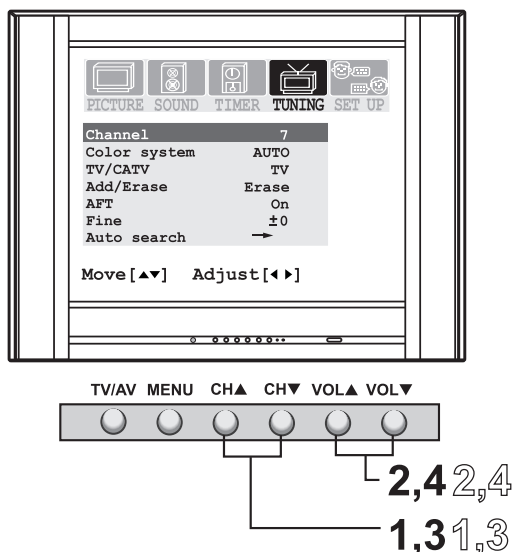
- 1 In TUNING menu page, press CH+ or CH- button repeatedly to highlight Auto Search item.
- 2 Press VOL+ button to start Auto Search.

All active channels will be preset and stored into the memory automatically. After presetting, the TV will go to the channel before the **Auto Search** started.

! Notes:

During the process of **Auto Search**, pressing the **VOL-** button will stop the process and the TV will return to the original channel before **Auto Search** started.

TV 18
Auto memory
Stop ←



Erasing an unnecessary channel

Please enter the **TUNING** menu first.

- 1 Press CH+ or CH- button repeatedly to highlight Channel item.
- 2 Press VOL+ or VOL- button to select a channel number (for example, channel 10)
- 3 Press CH+ or CH- button repeatedly to highlight Add/Erase item.
- 4 Press VOL+ or VOL- button to set to Erase.

Now channel 10 will be skipped when you browse channels by CH+ or CH- button.

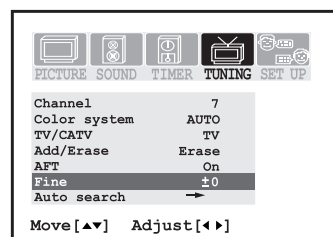
To restore a skipped channel, please use digit buttons to select the skipped channel, then repeat the above steps 3 and 4 and set the Add/Erase item to Add.

Fine tuning

Fine tuning is unnecessary under normal conditions. However, in areas of inferior broadcast conditions where adjustment is necessary for a better picture and sound, use Fine tuning.

Please enter the **TUNING** menu first.

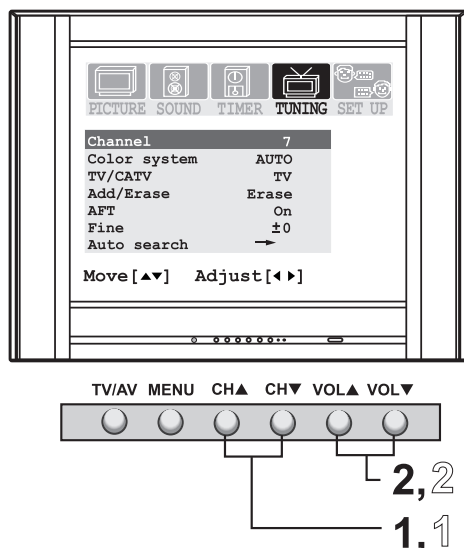
- 1 Press CH+ or CH- button repeatedly to highlight Channel item.
- 2 Press VOL+ or VOL- button to select a channel number you want to Fine tune (for example, channel 10).
- 3 Press CH+ or CH- button repeatedly to highlight Fine item.
- 4 Press VOL+ or VOL- button to fine tune till the best possible picture and sound are obtained.



Notes about AFT item:

The AFT can be set to On or Off. When the AFT is set to On, the TV set will automatically tune the program frequency to provide the best possible picture and sound.

Tuning in_(continued)



Setting the TV/CATV option

Please enter the **TUNING** menu first.

- 1 Press CH+ or CH- button repeatedly to highlight TV/CATV item.
- 2 Press VOL+ or VOL- button to select TV or CATV.

In TV mode, the set receives antenna signals. In CATV mode the set receives Cable TV programs. Please select:
TV: If using VHF/UHF antenna.
CATV: If using Cable TV.

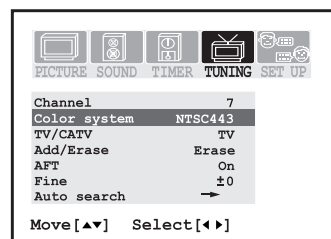
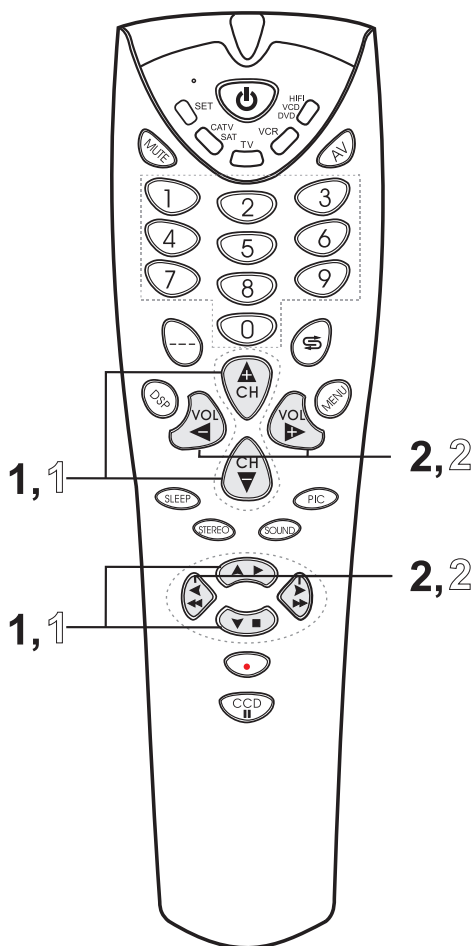
Setting the Color System

If the picture color is abnormal, maybe the color system setting is wrong. You can select a proper color system as follows.

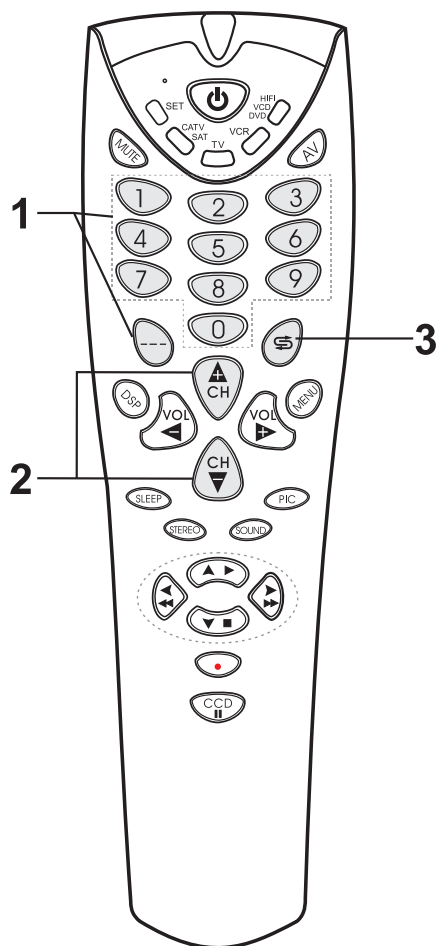
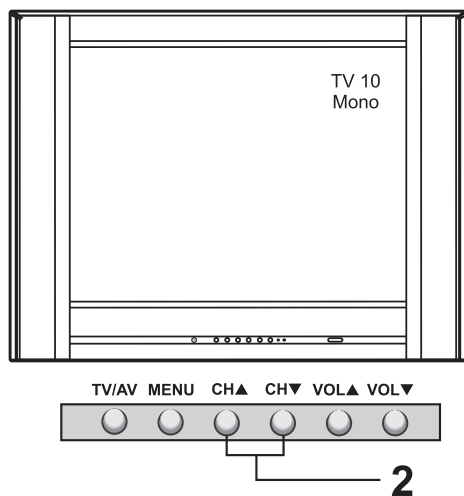
Please enter the **TUNING** menu first.

- 1 Press CH+ or CH- button repeatedly to highlight Color System item.
- 2 Press VOL+ or VOL- button to select a proper color system.

The color system switches between **AUTO**, **NTSC358** and **NTSC443**.



Channel Selection

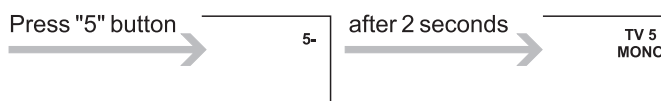


Before you select a channel, please select TV or CATV input signal. Please see the section of "To set the TV/CATV option". When you select TV, only channels received on antenna can be selected; When you select CATV, channels received on cable can be selected.

1 Use Direct Channel Selector (0-9 and --- buttons)

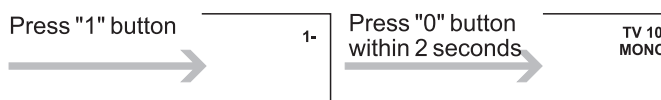
To select one-digit channel:

- Press 0-9 digit buttons and wait for 2 seconds. For example, you need channel 5, please input "5" button and the screen displays "5-", the TV set goes to channel 5 in 2 seconds



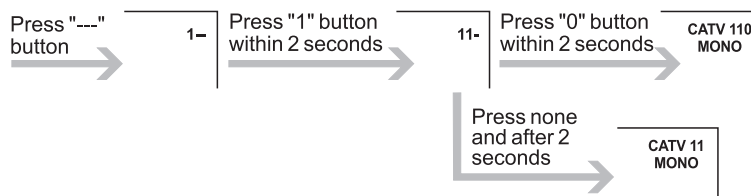
To select two-digit channel:

- Press two digit buttons in order to input the channel number. For example, you need channel 10, please input "1" button, followed "0" button and the set goes to channel 10. **Be sure that the second press should be within 2 seconds.**



To select three-digit channel:

- Press "---" button to display "1--".
- Press two digit buttons in order to input the channel number. For example, you need channel 110, please input "1" button, followed "0" button and the set goes to channel 110. **Be sure that the second press should be within 2 seconds, otherwise, the set goes to channel 11.**



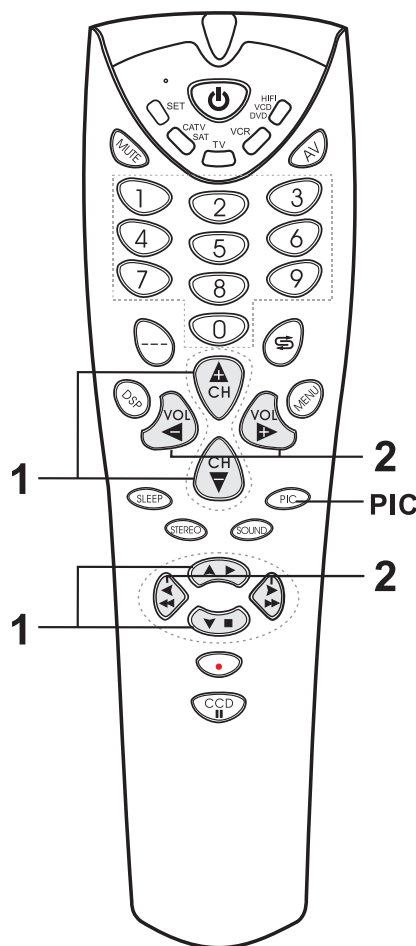
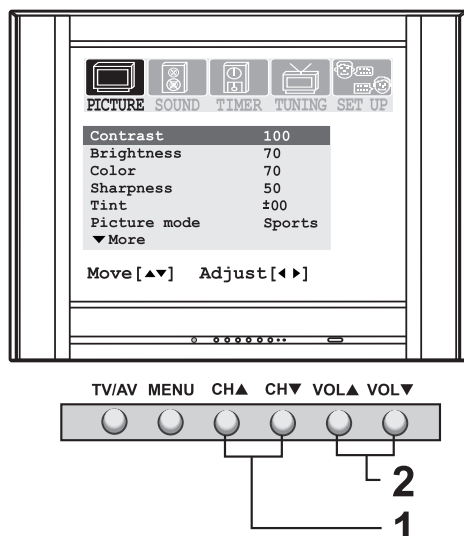
2 Use CH+ or CH- button

Press **CH+** button, the channel number increases;
Press **CH-** button, the channel number decreases.

3 Use previous channel ⇌ button

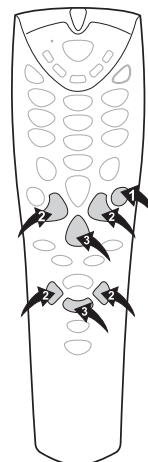
Press this button to switch between the current channel and the previous channel.

Adjusting Picture



To enter the PICTURE menu

- 1 Press MENU button.
- 2 Press VOL+ or VOL- button to select PICTURE icon
- 3 Press CH- button to display the PICTURE menu.



Adjusting picture

Please enter the **PICTURE** menu first.

- 1 Press CH+ or CH- button to select item.
- 2 Press VOL+ or VOL- button to adjust.

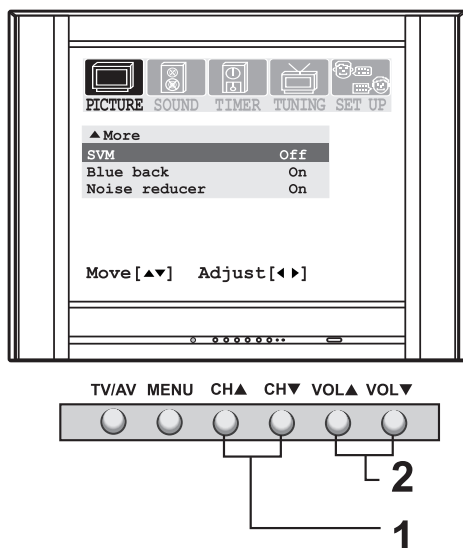
Item	VOL-	VOL+
Contrast	weaker	stronger
Brightness	darker	lighter
Color	paler	deeper
Sharpness	softer	sharper
Tint	purplish	greenish

There are three preset picture modes (**Sports**, **Standard** and **Movie**) and one user-set picture mode (**Personal**). The adjusted settings are stored in **Personal**.

Item	Picture mode		
	Sports	Standard	Movie
Contrast	100	75	50
Color	70	60	50
Brightness	70	70	65
Sharpness	50	50	50

Notes:

You can quickly access the **PICTURE** menu by pressing the **PIC** button on the remote controller, and then repeat steps 1, 2 to adjust.



Setting SVM option

Please enter the **PICTURE** menu first.

- 1 Press CH+ or CH- button to select SVM item.
- 2 Press VOL+ or VOL- button to adjust.

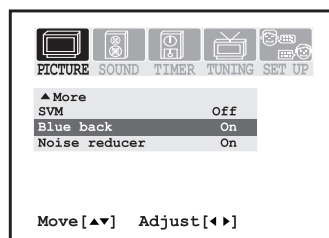
This function helps to improve the picture.
You can switch between **Off**, **Soft**, **Mild** and **Hard**.

Setting Blue background option

Please enter the **PICTURE** menu first.

- 1 Press CH+ or CH- button to select Blue Back item.
- 2 Press VOL+ or VOL- button to select On or Off.

If the **Blue Back** is set to **On**, the TV set will display a blue background when there is no input signal.



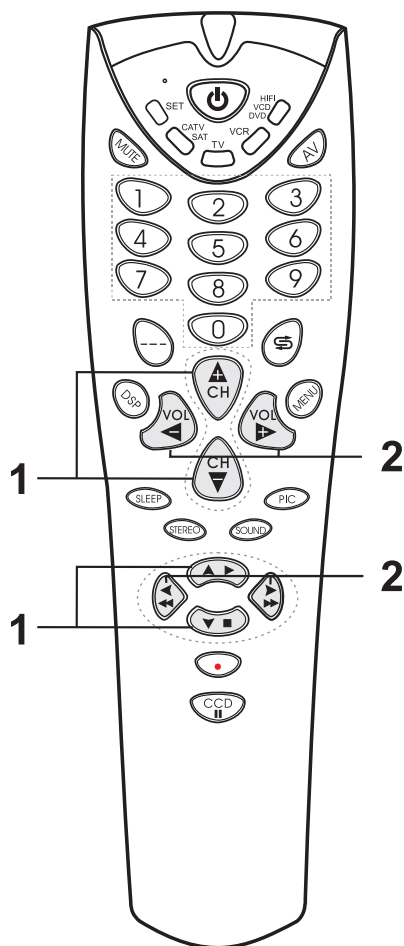
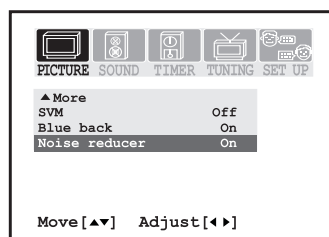
Setting Noise Reducer option

Please enter the **PICTURE** menu first.

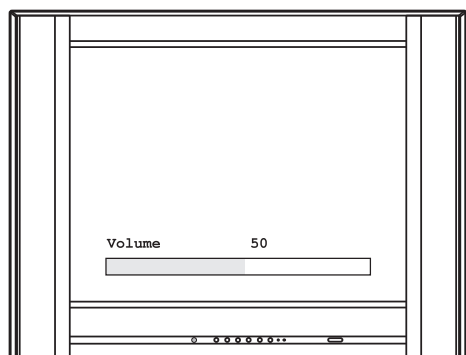
- 1 Press CH+ or CH- button to select Noise Reducer item.
- 2 Press VOL+ or VOL- button to select On or Off.

This function is useful when the picture is snowy because of a poor signal.

If the **Noise Reducer** is set to **On**, the picture will be improved.



Sound Control



Adjusting volume

1 Use VOL+ or VOL- button.

Press VOL+ button, the volume increases;
Press VOL- button, the volume decreases.
The minimum volume is 0 and the maximum volume is 100.

2 Use MUTE button.

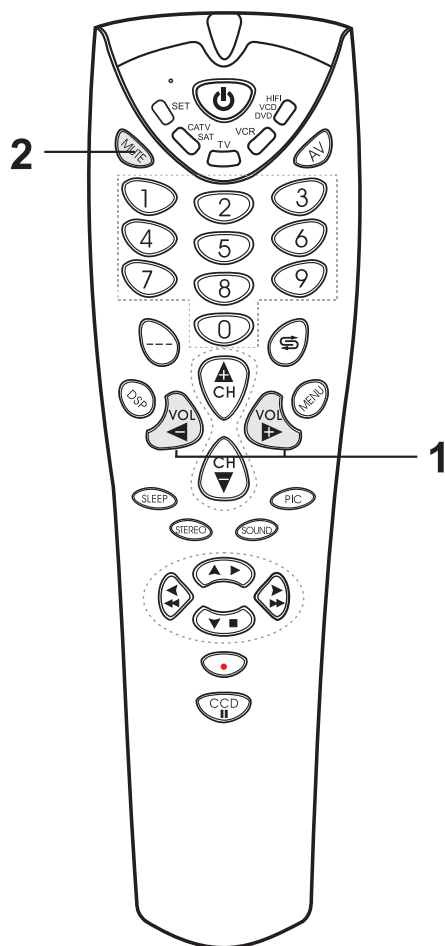
If you want to mute the sound, press **MUTE** button on the remote.

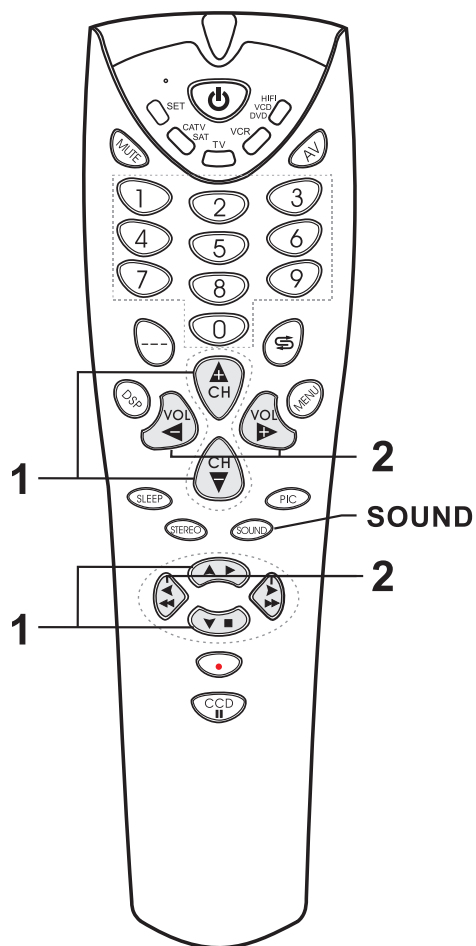
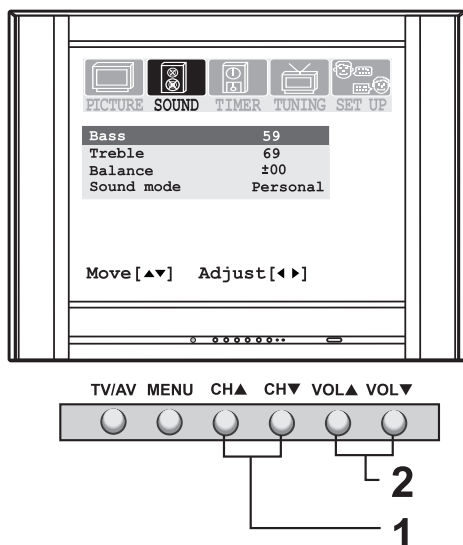
To resume the sound, press this button again.



! Notes:

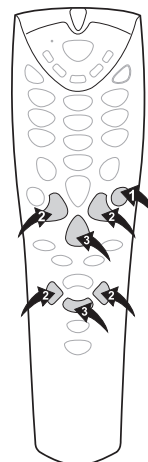
You can also resume the sound by pressing **VOL+** or **VOL-** button.





To enter the SOUND menu

- 1 Press MENU button.
- 2 Press VOL+ or VOL- button to select SOUND icon
- 3 Press CH- button to display the SOUND menu.



Adjusting sound

Please enter the **SOUND** menu first.

- 1 Press CH+ or CH- button to select item.
- 2 Press VOL+ or VOL- button to adjust.

Item	VOL-	VOL+
Bass	weaker	stronger
Treble	weaker	stronger
Balance	decreases the right channel	decreases the left channel

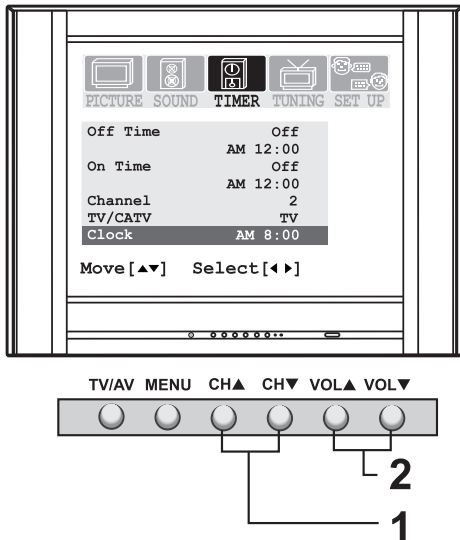
There are two preset sound modes (**News** and **Music**) and one user-set sound mode (**Personal**). The adjusted settings are stored in **Personal**.

Item	Sound mode	
	News	Music
Bass	50	90
Treble	50	40

Notes:

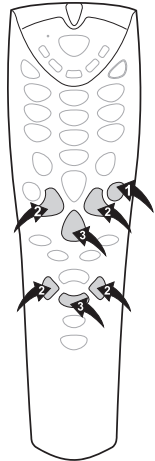
You can quickly access the **SOUND** menu by pressing the **SOUND** button on the remote controller, and then repeat steps 1, 2 to adjust.

Timer Setting



To enter the TIMER menu

- 1 Press MENU button.
- 2 Press VOL+ or VOL- button to select TIMER icon
- 3 Press CH- button to display the TIMER menu.



Setting the Clock

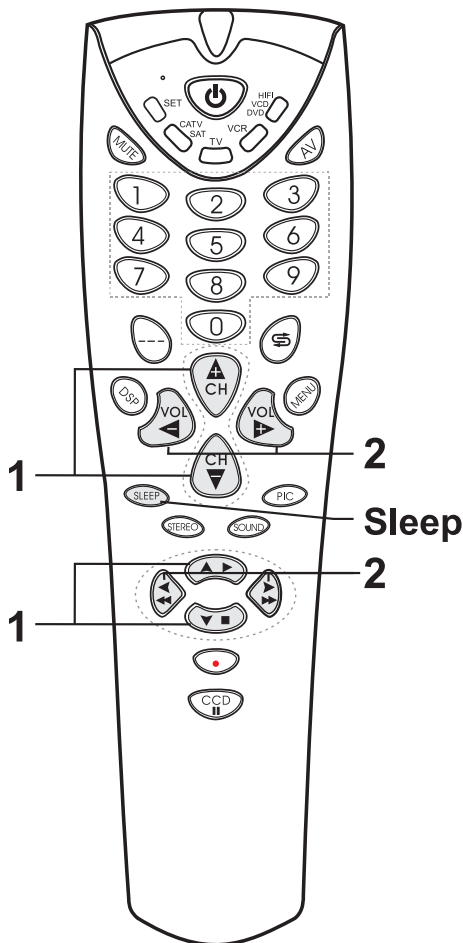
Please enter the **TIMER** menu first.

- 1 Press CH+ or CH- button to select Clock item.
- 2 Press VOL+ or VOL- button to set the current time.

! Notes:

We recommend you to set the current time before setting the **Off Time** or **On Time**.

If you disconnect the AC plug, the time will lost and the **Off Time** and **On Time** will not work. You need to set these items after you re-connect the AC plug.



Setting Sleep timer

You can quickly set the sleep timer by using the **SLEEP** button on the remote controller. With every press of this button the sleep time changes as follows:

OFF → 120 Min. → 110 Min. -----→ 20 Min. → 10 Min.

For example, you would like the TV to auto turn off in 60 minutes, you can press the **SLEEP** button repeatedly till the screen displays as the right figure. If you want to cancel the sleep timer, you can press the **SLEEP** button repeatedly till "Off" displays on the screen.

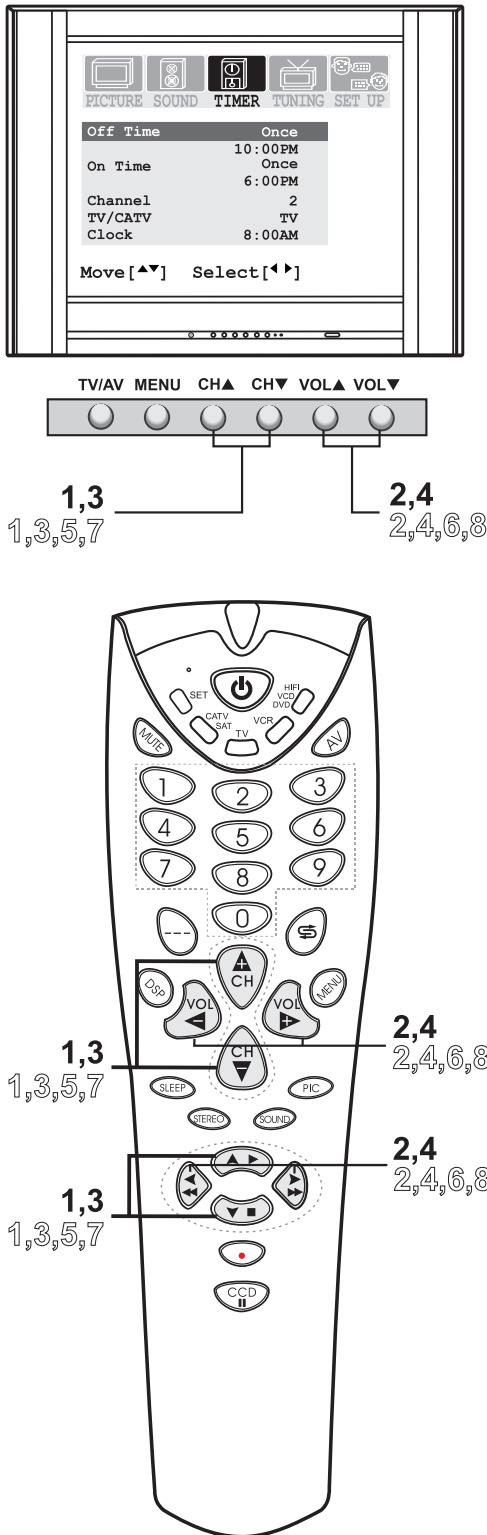
Sleep: 60 Min.

! Notes:

When there is no input signal for 15 minutes, the TV set auto goes to **STANDBY** mode.

! Notes about On Time function:

When the set is turned on automatically at the preset time, if there is no operation to the set within 2 hours, the set will regard this as no one is watching. For the sake of power saving, the TV set will go to STANDBY mode automatically.



Setting the Off Time

Please enter the **TIMER** menu first.

- 1 Press CH+ or CH- button to select Off Time item.
- 2 Press VOL+ or VOL- button to select Once or Every.
- 3 Press CH- button.
- 4 Press VOL+ or VOL- button to set the OFF time, for example 10:00PM.

The set auto turns off when the time is 10:00PM. If you set the **Off Time** item to **Once**, this function only effects once; If you set the **Off Time** item to **Every**, this function effects every day. To cancel this function, please set the **Off Time** to **Off**.

! Notes:

The Time can not be accessed until you set the **Off Time** to **Once** or **Every**. When you are setting the time by VOL+/- button, if you press and release within 0.7 second, the time's increase or decrease step is 1 minute; if you press and hold for more than 0.7 second, the time's increase or decrease step is 10 minutes.

Setting the On Time

Please enter the **TIMER** menu first.

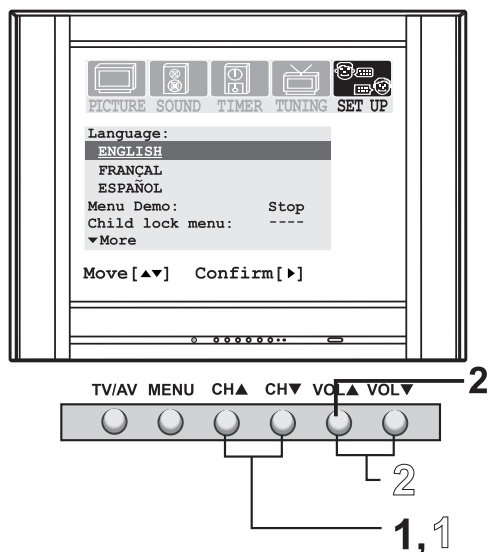
- 1 Press CH+ or CH- button to select On Time item.
- 2 Press VOL+ or VOL- button to select Once or Every.
- 3 Press CH- button.
- 4 Press VOL+ or VOL- button to set the ON time, for example 6:00PM.
- 5 Press CH- button to select CHANNEL item.
- 6 Press VOL+ or VOL- button to select a channel number, for example, channel 10.
- 7 Press CH- button to select TV/CATV item.
- 8 Press VOL+ or VOL- button to select TV or CATV.

The set auto turns on and goes to channel 10 when the time is 6:00PM. If you set the **On Time** item to **Once**, this function effects only once; If you set the **On Time** item to **Every**, this function effects every day. To cancel this function, set the **On Time** item to **Off**.

! Notes:

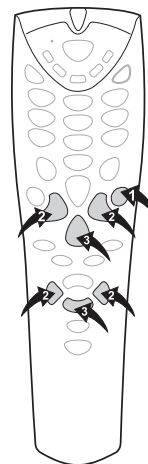
The Time can not be accessed until you set the **On Time** to **Once** or **Every**. When you are setting the time by VOL+/- button, if you press and release within 0.7 second, the time's increase or decrease step is 1 minute; if you press and hold for more than 0.7 second, the time's increase or decrease step is 10 minutes.

System Setting



To enter the SET UP menu

- 1** Press MENU button.
- 2** Press VOL+ or VOL- button to select SET UP icon
- 3** Press CH- button to display the SET UP menu.

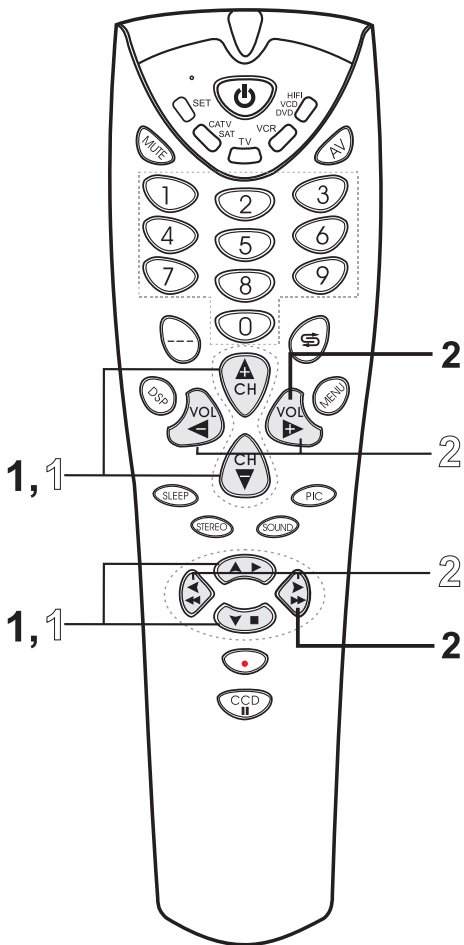


Selecting OSD language

Please enter the **SET UP** menu first.

- 1** Press CH+ or CH- button to select an OSD language.
- 2** Press the VOL+ button to confirm.

There are three OSD languages in this TV set: English, French and Spanish.

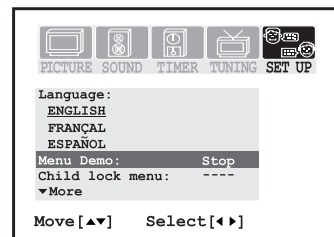


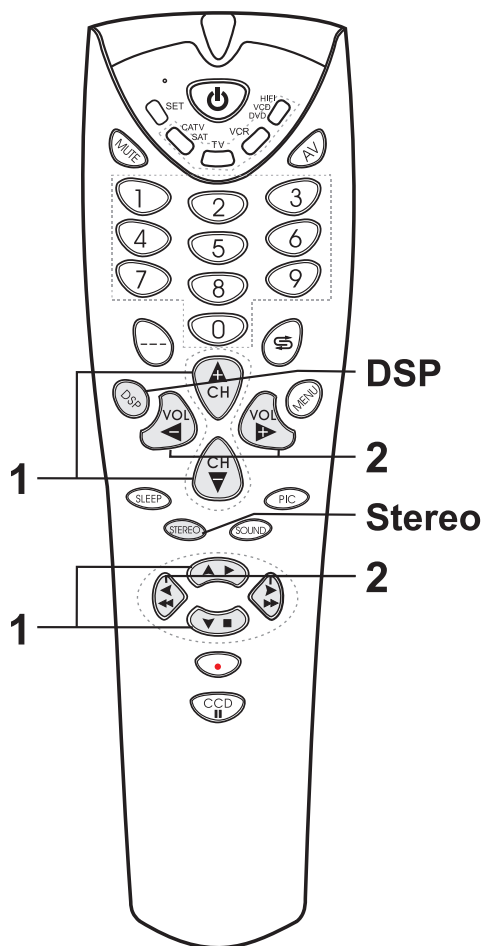
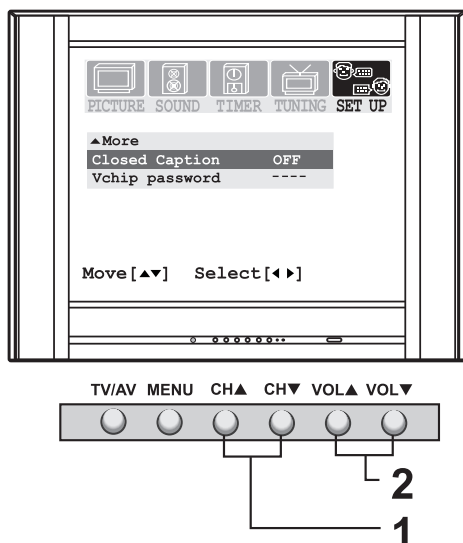
Setting Menu Demo

Please enter the **SET UP** menu first.

- 1** Press CH+ or CH- button to select Menu Demo item.
- 2** Press the VOL+ or VOL- button to start.

Then the TV set starts menu demonstration. This function teaches you how to operate the menu.





Setting Closed Caption(CCD)

Please enter the **SET UP** menu first.

1 Press **CH+** or **CH-** button to select Closed Caption item

2 Press the **VOL+** or **VOL-** button to select.

You can select the caption data channel (**C1/C2/C3/C4**), the text service channel (**T1/T2/T3/T4**) or turn off the Closed Caption (**Off**).

You can also quickly access the **Closed Caption** menu by pressing the **CCD** button on the remote controller.

! Notes:

1. Some TV programs may not be broadcast with closed caption signals, and therefore, the TV will not be able to display captions. Also, text information is not offered by all stations.
2. Some TV programs only provide one channel caption, one channel text, or only caption without text.

Selecting audio mode

If the program you are watching is "STEREO" or "SAP", you can select audio mode by using the **STEREO** button on the remote controller. The audio mode changes as follows.

MONO ↔ STEREO (If the program is **STEREO**)

MONO ↔ SAP (If the program is **SAP**)

MONO → STEREO → SAP (If the program is **STEREO & SAP**)

Recalling the On-screen display

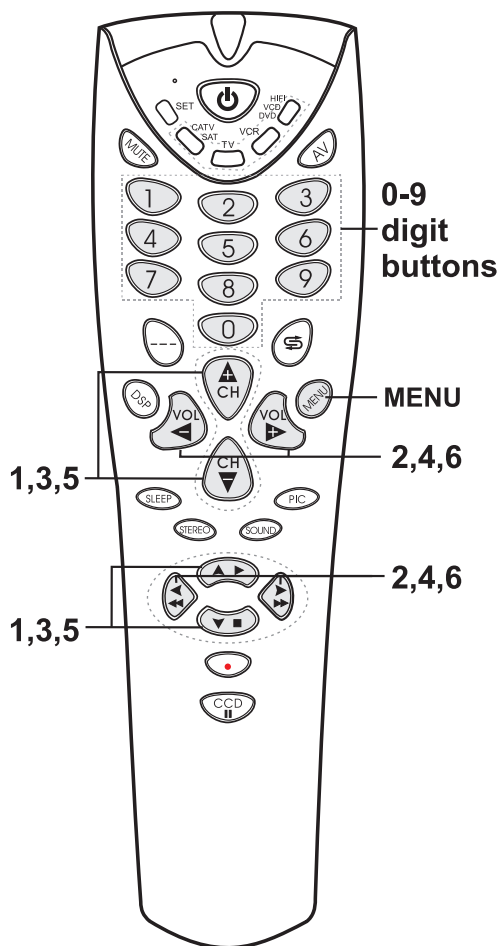
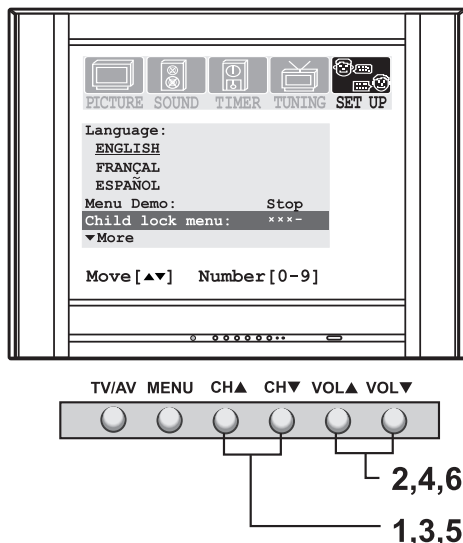
You can press the **DSP** button on the remote controller to recall the On-screen display.

First press of the **DSP** button displays the channel number and audio mode; before the display disappears, pressing **DSP** button again will display the time. To cancel the on-screen display, press the **DSP** button again.

AM 10:00	TV 10 MONO
----------	---------------

Parental Control

Child lock



! Important:

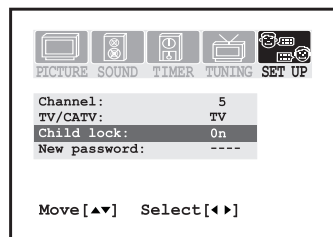
Be sure to write down the new password and retain it for future use because you can not access the Child lock submenu if you input an incorrect password.

If you forget the password, please input 4,3,2,1 in order and you can also enter into the Child lock submenu.

To enter Child lock submenu

Please enter the **SET UP** menu first.

- ▶ Press CH+ or CH- button to select Child lock menu item.
- ▶ Input the password to enter into Child lock menu.
The default password to enter Child lock menu is **0000** and you can change it after you enter into Child lock submenu as the right figure.



Setting Child lock

Please enter the **Child lock** submenu as described above.

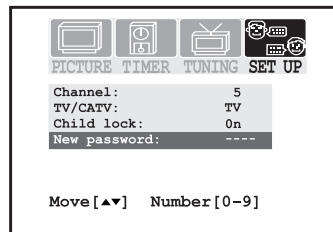
- 1 Press CH+ or CH- button to select Channel item.
- 2 Press VOL+ or VOL- button to select a channel you want to lock. For example, channel 10.
- 3 Press CH+ or CH- button to select TV/CATV item.
- 4 Press VOL+ or VOL- button to select TV or CATV.
- 5 Press CH+ or CH- button to select Child lock item.
- 6 Press VOL+ or VOL- button to select On.

Now the **Child lock** is active. When you select channel 10, a blue background appears and the note as "**Notice: child lock function active**" also appears when there is no OSD display on the screen. To turn off the **Child lock** function, please select **Off**.

Changing the password

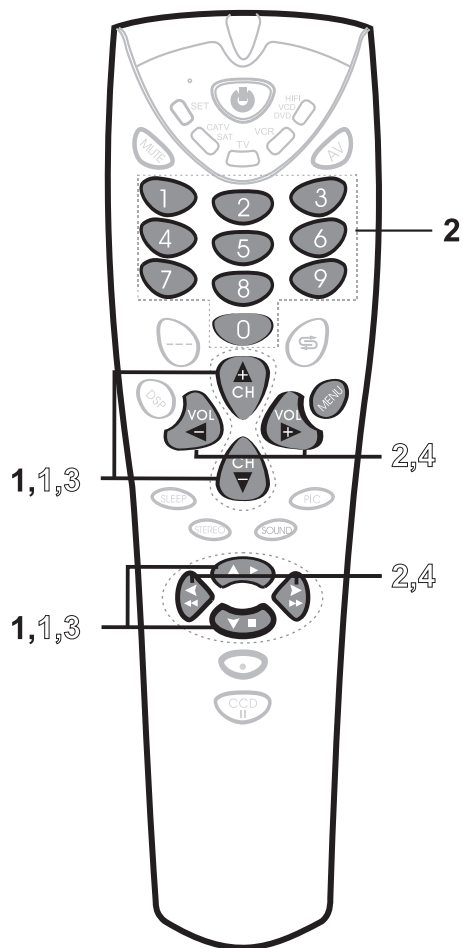
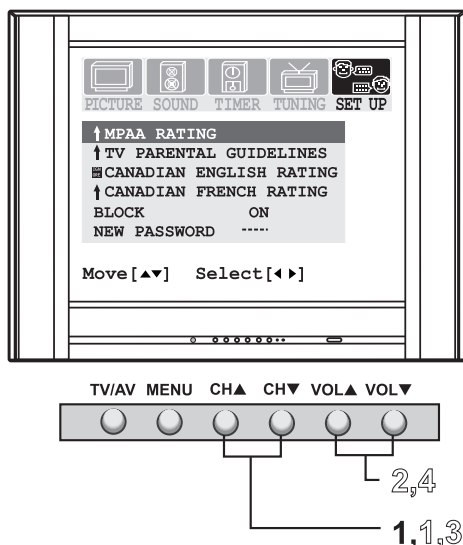
Please enter the **Child lock** submenu as described above.

- ▶ Press CH+ or CH- button to select New password item.
- ▶ Input a new password by using 0-9 digit buttons. Press MENU button to confirm after you finish inputting the new password.



V-Chip enables parents to prevent their children from watching inappropriate material on TV. V-Chip reads the ratings for programming (except for news, sports, unedited movies on premium cable and Emergency System signals), then denies access to programming if the program's rating meets the limitations you select. In this case, the program will be blocked.

Setting V-chip



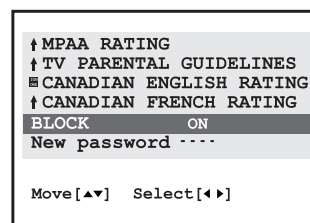
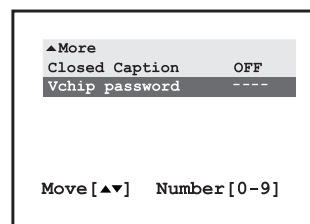
To enter the V-chip menu

Please enter the **SET UP** menu first.

- 1 Press CH+ or CH- button to select Vchip password item.
- 2 Use digit buttons (0-9) to enter the password (the preset password is 0000).

IMPORTANT: This password can be changed after the original password is entered.

Note: To enable V-chip setting, you should set **BLOCK** to **ON** in V-chip menu.



MPAA RATING SET-UP

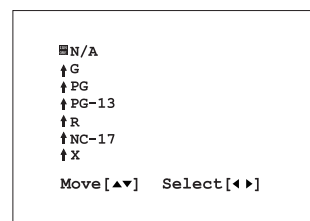
Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Please enter the V-chip menu first.

- 1 Press CH+ or CH- button to select MPAA RATING item.
- 2 Press VOL+ or VOL- button to enter into MPAA RATING sub-menu.
- 3 Use CH+ or CH- to select the desired rating.
- 4 Press VOL+ or VOL- button to block the rating ("↑" will appear), or unblock ("IGN" will appear).

Movie Ratings:

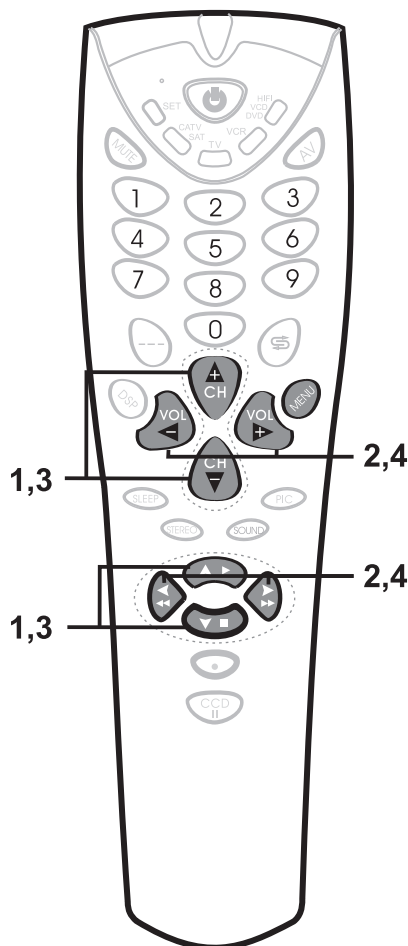
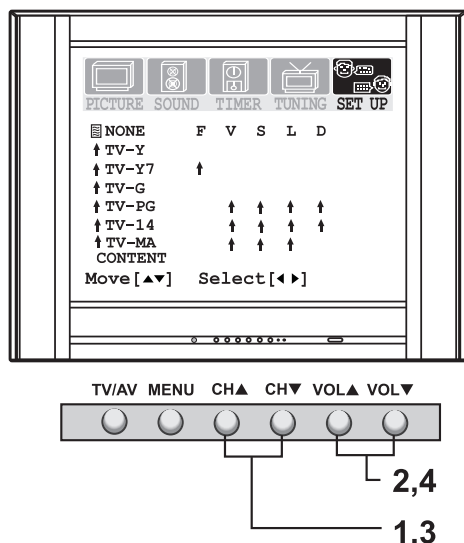
- * Unblocked
- * G and Above (general audience)
- * PG and Above (parental guidance suggested)
- * PG-13 and Above (13 years and up)
- * R and Above (restricted)
- * NC-17 and Above (18 years and up)
- * X (adult)



If you set PG-13 and Above; G and PG movies will be available, PG-13, R, NC-17 and X will be blocked.

Parental Control_(continued)

Setting V-chip

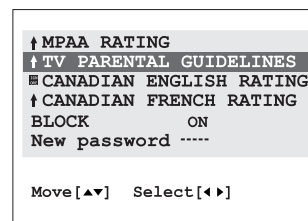


TV RATING SET-UP

TV Parental Guidelines may have one or more letters added to the basic rating to let parents know when a show contains higher levels of violence, sex, adult language or suggestive dialogue:

Please enter the V-chip menu first.

- 1** Press CH+ or CH- button to select TV PARENTAL GUIDELINES item.
- 2** Press VOL+ or VOL- button to enter into TV PARENTAL GUIDELINES sub-menu.
- 3** Use CH+ or CH- to select the desired rating.
- 4** Press VOL+ or VOL- to block the rating (" ↑ " will appear), or unblock ("  " will appear).

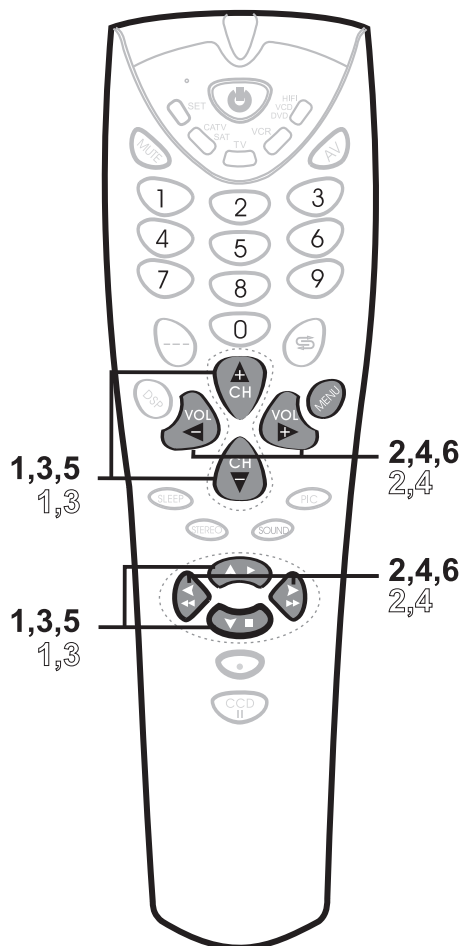
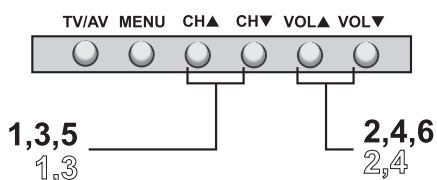
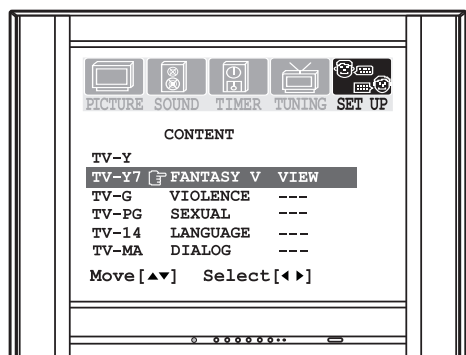


TV Ratings:

- * Unblocked
- * TV-Y and Above (all children) (individual content categories do not apply)
- * TV-Y7 (7 years and up)
- * TV-G and above (general audience) (individual categories do not apply)
- * TV-PG and Above (parental guidance suggested)
- * TV-14 and above (14 years and up)
- * TV-MA (mature audience)

Content Categories:

- * F Violence: fantasy violence (applies only to TV-Y7)
- * Violence (applies to TV-PG and above, TV-14 and Above, TV-MA)
- * Sex scenes: sexual situations (applies to TV-PG and above, TV-14 and Above, TV-MA)
- * Language: adult language (applies to TV-PG and above, TV-14 and Above, TV-MA)
- * Dialog: sexual dialogue (applies to TV-PG and Above, TV-14)

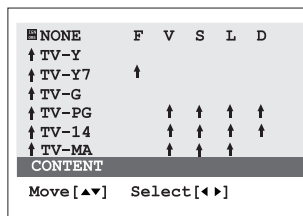


Setting individual Content Categories for TV Rating

Please enter the TV PARENTAL GUIDELINES sub-menu first.

1 Press CH+ or CH- button to select CONTENT item.

2 Press VOL+ or VOL- button to enter into the CONTENT menu.



3 Press CH+ or CH- button to select a TV Rating.

4 Press VOL+ button to enter into content categories menu.

5 Press CH+/- button to select content category.

6 Press VOL+ button to set Block or View. If the content category does not apply to the TV rating, --- will be displayed.

Press VOL- button to exit content categories menu.

! Notes:

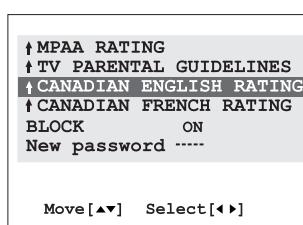
If you want to exit the menu, please press MENU button repeatedly.

CANADIAN ENGLISH RATING SET-UP

Please enter the V-chip menu first.

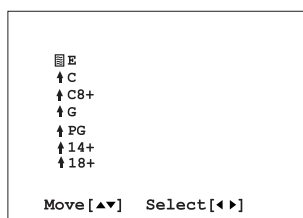
1 Press CH+ or CH- button to select CANADIAN ENGLISH RATING item.

2 Press VOL+ or VOL- button to enter into CANADIAN ENGLISH RATING sub-menu.



3 Press CH+ or CH- to select the desired rating.

4 Press VOL+ or VOL- to either block the rating ("↑" will appear), or unblock ("IGN" will appear).

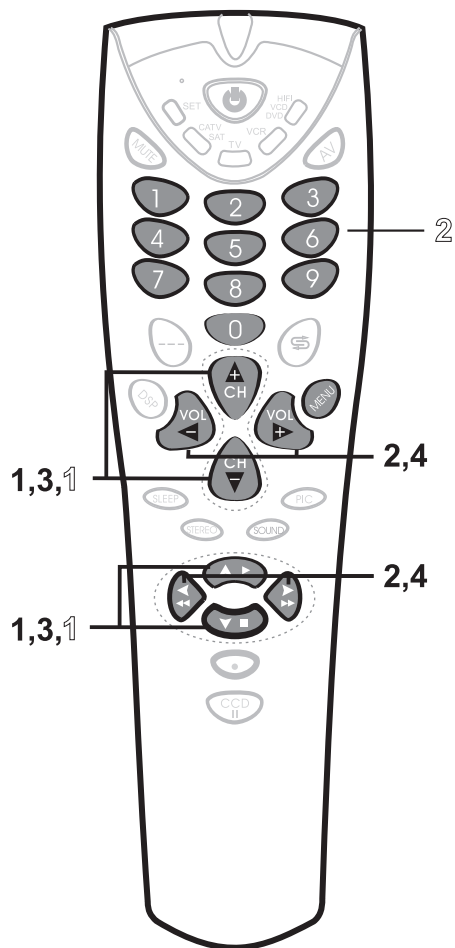
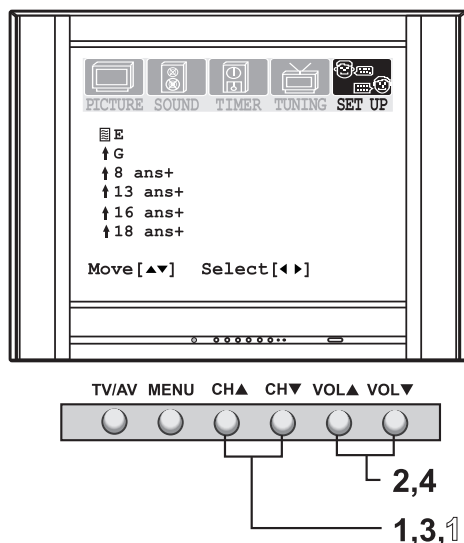


Canadian English Language Ratings:

- * E: Exempt.
- * C: Children.
- * C8+: Children 8 years and older.
- * G: General programming, suitable for all audiences.
- * PG: Parental guidance.
- * 14+: Viewers 14 years and older.
- * 18+: Adult programming.

Parental Control_(continued)

Setting V-chip



CANADIAN FRENCH RATING SET-UP

Please enter the V chip menu first.

1 Press CH+ or CH- button to select **CANADIAN FRENCH RATING** item.

↑MPAA RATING
↑TV PARENTAL GUIDELINES
↑CANADIAN ENGLISH RATING
↑**CANADIAN FRENCH RATING**
BLOCK ON
New password ----
Move[▲▼] Select[◀▶]

2 Press VOL+ or VOL- button to enter into **CANADIAN FRENCH RATING** sub-menu.

3 Press CH+ or CH- to select the desired rating.

4 Press VOL+ or VOL- to block the rating ("↑" will appear), or unblock ("IGNORE" will appear).

Canadian French Language Ratings:

- * E: Exempt.
- * G: Children.
- * 8 ans+: Children 8 years and older.
- * 13 ans+: Children 13 years and older.
- * 16 ans+: Viewers 16 years and older.
- * 18 ans+: Adult programming.

CHANGING THE PASSWORD

Please enter the V-chip menu first.

1 Press CH+ or CH- button to select **NEW password** item.

↑MPAA RATING
↑TV PARENTAL GUIDELINES
↑CANADIAN ENGLISH RATING
↑CANADIAN FRENCH RATING
BLOCK ON
New password **145-**
Move[▲▼] Number[0-9]

2 Input a new password by using 0-9 digit buttons. Press **MENU** button to confirm after you finish inputting the new password.

PRESS MENU KEY TO CONFIRM

Next when you want to enter the V-chip menu, you should use this new password. Make sure to remember the password.

Troubleshooting Guide

Check the following before requesting service.

	SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Power	No power	The AC power cord is not connected.	Connect the AC power cord to the AC outlet
TV broadcast reception	Poor or no picture.	TV station experiencing problems.	Try another channel.
		Picture control is not adjusted.	Check picture control adjustments.
		Possible local interference.	Check for source of reception disturbance
		Antenna/CATV connector is not connected.	Check CATV connection or VHF/UHF ant.
	Picture wobbles or drifts.	TV station experiencing problems.	Try another channel.
		Cable TV channel is scrambled.	A Cable box needs to be used (if desired).
		Possible local interference.	Check for source of reception disturbance
	No CATV reception.	CATV connected or not connected.	Check all CATV connections.
		TV/CATV set to TV.	Set TV/CATV to CATV
		Cable TV service interrupted.	Contact your Cable TV company.
	No reception above CH13.	TV/CATV set to TV.	Set TV/CATV to CATV.
	Poor or no sound.	TV station experiencing problems.	Try another channel.
		MUTE button is pressed.	Press MUTE button again.
		Possible local interference.	Check for source of reception disturbance.
		Antenna/CATV connector is not connected.	Check CATV connection or VHF/UHF ant.
		Volume is set to minimum.	Increase volume.
	TV Shuts off.	Sleep Timer is set.	Set Sleep Timer to "Off".
		Off Timer is set.	Clear Off Timer.
	Closed Captioning not working.	TV Signal is weak.	Check CATV or VHF/UHF antenna.
		TV station experiencing problems or program tuned is not closed captioned.	Try another channel.
		Closed Captioning not turned on.	Press the CCD button.
Remote Control	Remote control does not operate.	The remote control is not aimed at the sensor.	Aim the remote control at the Remote sensor.
		Distance is too far or too much light in the room.	Operate within 23 feet or reduce the light in the room.
		There is an obstacle in the path of the beam.	Clear the path of the beam.
		The batteries are weak.	Replace the batteries.
		The batteries are not inserted correctly.	Insert correctly.
V-CHIP	Parental Control not Working properly.	Block item is set to "Off".	Set the block item "On".
		News or sports event being broadcast.	Parental Control does not work with News or sporting events.
		Ratings not set.	Set ratings as desired.

Troubleshooting Guide_(continued)

Reception disturbances

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results if not using cable or a satellite. The most common types of television interference are shown below. If one of these symptoms appear when the TV is connected to a Cable TV system, the disturbance may be caused by the local cable company broadcast.

IGNITION:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electric drills and other electric appliances.



GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or other objects. Changing the direction or position of the antenna may improve the reception.



SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install an external antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

This interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.



PICTURE SIZE VARIATION:

A slight picture size variation is quite normal when you adjust the CONTRAST or BRIGHTNESS setting.

CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning. The finish on the receiver may be cleaned with a dust cloth and cared for as other furniture. Use caution when cleaning and wiping the plastic parts. Mild soap and a soft, damp cloth may be used.

Specifications

Power Supply:	AC 120V, 60Hz
Power Consumption:	140W
Dimensions:	29.9(W) × 23.4(H) × 19.3(D) inch
Weight(kg/lb):	43 kg/95 lb
CRT:	27" FLAT SCREEN
Receiving channel:	
	VHF 2-13
	UHF 14-69
	CATV 2-69, (A-6)-(A-1), A-W, (W+1)-(W+28)
	Total 181 channels
Color System:	
	Television: NTSC-M
	AV: NTSC3.58/4.43, PAL 4.43
Audio Output:	8W × 2
Antenna Impedance:	VHF/UHF 75 ohm
Accessories:	Remote controller × 1

⚠ Design and specifications are subject to change without notice.



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